

*DYSON COLLEGE OF ARTS AND SCIENCES*

**THIRTY-SIXTH  
ANNUAL MEETING  
OF  
THE SOCIETY OF FELLOWS**



**SATURDAY, MARCH 4<sup>TH</sup>, 2017**

**PACE UNIVERSITY**

**ONE PACE PLAZA**

**NEW YORK, NY**

**THE SOCIETY OF FELLOWS  
DYSON COLLEGE OF ARTS AND SCIENCES  
PACE UNIVERSITY**

**THIRTY-SIXTH ANNUAL MEETING  
SATURDAY, MARCH 4<sup>TH</sup>, 2017  
ONE PACE PLAZA**

10:00 a.m.      **Check-in and Breakfast** – Bianco Room

10:45 a.m.      **Annual Meeting Welcome** – Bianco Room

11:00-12:40 p.m. **Plenary Session** – Bianco Room

12:45-2:00 p.m. **Luncheon and Poster Session** – Student Union and Reading Room  
(adjacent to Student Union)

2:15-3:15 p.m.   **First Concurrent Afternoon Panel Sessions 1 through 9**

3:30-4:30 p.m.   **Second Concurrent Afternoon Panel Sessions 10 through 18**

Panel Sessions are located in classrooms on the 3<sup>rd</sup> Floor East Wing and  
the Bianco Room of One Pace Plaza

4:45-5:30 p.m.   **Reception and Awards Ceremony** – Student Union

**The Society of Fellows Executive Board wishes to thank and acknowledge all  
Faculty Sponsors and Moderators for their support of  
The Society of Fellows of Dyson College of Arts and Sciences**

THE SOCIETY OF FELLOWS  
DYSON COLLEGE OF ARTS AND SCIENCES  
PACE UNIVERSITY

THIRTY-SIXTH ANNUAL MEETING

10:00 a.m.      **Check-in and Breakfast** – Bianco Room

10:45 a.m.      **Annual Meeting Welcome** – Bianco Room

Dr. Maria T. Iacullo-Bird  
Assistant Dean, Dyson College of Arts and Sciences

Dr. Nira Herrmann  
Dean, Dyson College of Arts and Sciences

11:00-12:40 p.m. **Plenary Session** – Bianco Room

*A Study of Gentrification and Residential Rents in Bushwick and  
Williamsburg, Brooklyn*

George-Ann Ryan  
Faculty Sponsor: Dr. Anne J. Bynoe

*Preparation and Applications of Silicone Composites as an Artistic Medium*

Taylor Longenberger  
Faculty Sponsor: Dr. Joseph W. Krumpfer

*"I Now Pronounce You Husband and Wife" ...But Wait, We're Gay! Marriage  
as a Space for Same-Sex Couples*

William De Feis  
Faculty Sponsor: Dr. Jason Whitesel

*General Tso's Journey to USA: The Importance of Authenticity in Food Choice*

Katie Li  
Faculty Sponsor: Dr. Amy C. Foerster

12:45-2:00 p.m. **Luncheon** – Student Union  
Presiding, Dr. Nira Herrmann  
Dean, Dyson College of Arts and Sciences

**Poster Session** – Student Union and Reading Room

*Blue Tape Society: The Importance of Pop-Ups*  
Annabelle Krupcheck; Faculty Sponsor: Prof. Jillian M. McDonald

*Functional Characterization of the Human  $\beta 2b$  I354T Mutation Associated with Epilepsy*  
Salma Allam; Faculty Sponsor: Dr. Zafir K. Buraei

*Amyloid Forming Sequences in Trichomonas Vaginalis-Phase II*  
Ami Asakawa; Faculty Sponsor: Dr. Cho Chan

*Chemical and Structural Analysis of Metronidazole and its Derivatives*  
Solmaz Azimi; Faculty Sponsor: Dr. Rita K. Upmacis

*Examining the Mechanical and Anti-Bacterial Properties of Crosslinked Silicone Materials and Coatings*  
William Bender; Faculty Sponsor: Dr. Joseph W. Krumpfer

*Greening the Inorganic Chemistry Laboratory*  
Tyler Brescia; Faculty Sponsor: Dr. Rita K. Upmacis

*Releasing the Pursuit of Bouncing and Behaving Hair: Natural Hair as an Afrocentric Feminist Aesthetic for Beauty*  
Alyssa Chambers; Faculty Sponsor: Dr. Deborah M. Poe

*Evaluation on the Interaction of Nanomaterials with Enzymes (Catalase and Lipase) Using Optical Spectroscopy*  
Kaitlyn Chhe; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Spectroscopic Properties of Hydroxycinnamic Acids at Different Ph*  
Josephine Farshi; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*A New Approach to Drug Discovery for the Treatment of Cryptosporidiosis*  
Mohini Gobin; Faculty Sponsor: Dr. Nigel R. Yarlett

*A Molecular Mechanism for Alzheimer's Disease: The Effects of WT and Mutants Presenilin M146V and D275A on Trpc5 Channel Function*  
Paris Hanson; Faculty Sponsor: Dr. Zafir K. Buraei

**Poster Session (continue) – Student Union and Reading Room**

*Analysis of Sulfa Drugs Using Raman Spectroscopy and Density Functional Theory (DFT) Calculations*

Alexis Javornik; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Discrimination of Fluoroquinolone Antibiotics Using Raman Spectroscopy*

Ashley Kuptsow; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*RNA Interference (Rnai) Screen to Identify New Genes That Control Fertilization and Embryo Development*

Emily Lopes; Faculty Sponsor: Dr. Matthew R. Marcello

*Surface Modification of Silicone Materials via Displacement Reactions with Organosilicon Monomers*

Dymin Morillo; Faculty Sponsor: Dr. Joseph W. Krumpfer

*Raman Spectroscopy and Density Functional Theory Calculations of Phenolic Acid Derivatives*

Samantha Pace; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Optimizing the Conditions for the Hplc Separation of Illicit Drugs/Amphetamines*

Lauren Reilly; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Hydrophobization of Inorganic Oxide Surfaces via Siloxane Equilibration*

Kaleigh Ryan; Faculty Sponsor: Dr. Joseph W. Krumpfer

*Polymerization within Giant Unilamellar Vesicles Prepared by Gentle Hydration of Hybrid Agarose/Lipid Films*

Emanuel Smith; Faculty Sponsor: Dr. Sergey V. Kazakov

*Binding of Tetracyclines with Nanoceramics*

Hunter Tonn; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Shea Butter Infused with Natural Oils to Generate a Novel and Natural Antimicrobial Moisturizer*

Amanda Tremblay; Faculty Sponsor: Dr. JaimeLee I. Rizzo

*Infusion of Native Oils to Synthesize Novel Antibacterial Surfaces*

Kenya Velez; Faculty Sponsor: Dr. JaimeLee I. Rizzo

*Phenol Content and Antioxidant Activities of Different Commercial Tea Samples*

Amanda Villaggi; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Use of Different Methods to Extract Active Compounds from Bee Propolis*

Lyric Wyan; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

**First Concurrent Afternoon Panel Sessions – 2:15-3:15 p.m.**

**Session 1**      **Analytical Chemistry I: Chromatography and Spectroscopy** – Room E316  
2:15-3:15 p.m.      **Moderator: Dr. Elmer-Rico E. Mojica**

*Analysis of NSAIDs (Non-Steroidal Anti-Inflammation Drugs) in Environmental Water Samples*

Elijah Jones; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Human Serum Albumin Binding Interaction with Nanomaterials*

Tyler Nolan; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Evaluating the Water Quality from Selected Billion Oysters Project (BOP) Restoration Sites*

Jahaira Zapata; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

**Session 2**      **Literary Studies I: Urban Perspectives** – Room E317  
2:15-3:15 p.m.      **Moderators: Dr. Michael H. Finewood and Dr. Robert J. Mundy**

*Three Walks/One Talk: Writing the City, University, and Self*

Audrey Arcari

Maria Castiglia

Faculty Sponsors: Dr. Michael H. Finewood and Dr. Robert J. Mundy

*Constructing Nature in New York City: Assessing Green Gentrification in Chelsea through the Pier 55 Project*

Leanna Molnar; Faculty Sponsors: Dr. Michael H. Finewood and Dr. Robert J. Mundy

**Session 3**      **Historical Perspectives on Marriage and Immigration** – Room E318  
2:15-3:15 p.m.      **Moderators: Dr. Joseph Tse-Hei Lee and Dr. Barbara Blumberg**

*Shifting Traditional Paradigms in Contemporary China*

Ilona Kereki; Faculty Sponsor: Dr. Joseph Tse-Hei Lee

*Antoun- Anthony: First Wave Arab Immigration*

Katharine Anthony; Faculty Sponsor: Dr. Barbara Blumberg

**Session 4**      **The Economics of Health Care Policy – Room E323**  
2:15-3:15 p.m.    **Moderator: Dr. Anna Shostya**

*The Relationship Between Heroin Use and Prescription Opiate Use in the United States*

Candice Cordova; Faculty Sponsor: Dr. Gregory Colman

*The Economics of Cancer Care and Mortality Rates*

Latrell Gray Jones-Booker; Faculty Sponsor; Prof. Sam S. Baruch

*Food Deserts and Obesity, Diabetes, and Life Expectancy*

Elizabeth Lipov; Faculty Sponsor: Dr. Anna Shostya

**Session 5**      **International Economics – Room E324**  
2:15-3:15 p.m.    **Moderators: Dr. Joseph C. Morreale and Prof. Mark L. Weinstock**

*The Effect of the Marginal Corporate Tax Rate on Domestic Investment in OECD Countries*

Charles Valvo; Faculty Sponsor: Dr. Joseph C. Morreale

*Causes and Policy Implications of Dollarization in Cambodia*

Kilian Tep; Faculty Sponsors: Prof. Isabelle M. Delalex and Prof. Sam S. Baruch

*Lasting Effects From Colonization*

De'Ja Cox; Faculty Sponsor: Prof. Mark L. Weinstock

**Session 6**      **The Economics of Health, Wealth & Expectations – Room E325**  
2:15-3:15 p.m.    **Moderator: Dr. Gregory Colman**

*Does Gentrification Affect Birth Rates?*

Amanda Sorrentino; Faculty Sponsors: Prof. Kier F. Hanratty and Dr. Anna Shostya

*The Impact of Age and Motherhood on Women's Wages*

Ava Kratzinger; Faculty Sponsor: Dr. Gregory Colman

*Hysteresis and its Impacts on Cognitive Ability and Depression*

Melissa Navas; Faculty Sponsor: Dr. Gregory Colman

*Do Demographics Affect the Accuracy of Consumer Inflation Expectations Over Time*

Klejdja Qosja; Faculty Sponsor: Dr. Gregory Colman

**Session 7**  
2:15-3:15 p.m.

**Public Policy and Social Enterprise – Room E326**  
**Moderators: Dr. Gina Scutelnicu and Dr. Rebecca Tekula**

*Participatory Budgeting and Government Accountability in New York City*  
Ashley Kuenneke; Faculty Sponsor: Dr. Gina Scutelnicu

*The Correlation between the National Average Wage and the Employment Growth of Clinical Laboratory Scientist*  
Cathy Qi Tan; Faculty Sponsor: Dr. Gina Scutelnicu

*Program-Related Investments in U.S. private non-operating foundations*  
Eileen Lee Fung; Faculty Sponsor: Dr. Rebecca Tekula

**Session 8**  
2:15-3:15 p.m.

**Strategies for Global Peace and Reconciliation – Room E327**  
**Moderator: Dr. Emily E. Welty**

*Reintegration of Female Perpetrators*  
Sydney Tisch; Faculty Sponsor: Dr. Emily E. Welty

*The Impact of Launching a Gender-Focused Truth Commission on the Experiences of Indigenous Women During the Forced Sterilizations on 1960s and 1970s*  
Yasmine Coccoli; Faculty Sponsor: Dr. Emily E. Welty

*Truth and Reconciliation After the Greensboro Massacre*  
Terrie Soule; Faculty Sponsor: Dr. Emily E. Welty

**Session 9**  
2:15-3:15 p.m.

**Anxiety: An Epidemic (Performance) – Bianco Room**  
**Moderator: Prof. Ion Cosmin Chivu**

Holly Wright  
Ryan Beagbler  
Sam Casey  
Quinn Corcoran  
Erin Dilorio  
Thomas Pastor  
Faculty Sponsor: Prof. Ion Cosmin Chivu



**Second Concurrent Afternoon Panel Sessions – 3:30-4:30 p.m.**

**Session 10**      **Analytical Chemistry II: Drug Discovery and Drug Delivery –**  
3:30-4:30 p.m.    **Room E316**  
**Moderators: Dr. Sergey V. Kazakov and Dr. Irina G. Gazaryan**

*Lipobeads: Effect of Lipid Bilayer Fluidity on Formation of Unilamellar Coating on the Microgels*

Sarah Rahni; Faculty Sponsor: Dr. Sergey V. Kazakov

*Metals as Triggers of Antioxidant Genetic Program*

Linh Nguyen; Faculty Sponsor: Dr. Irina G. Gazaryan

*Oxyquinolines Triggering Antihypoxic and Antioxidant Programs*

Olga Byesyedina; Faculty Sponsor: Dr. Irina G. Gazaryan

**Session 11**      **Literary Studies II: From Milton, to Gogol, and Morrison –**  
3:30-4:30 p.m.    **Room E317**  
**Moderators: Dr. Erica L. Johnson, Dr. Rebecca E. Martin, and**  
**Dr. Andriy Danylenko**

*When the Priest Turns Atheist: Applying the Barthesian Paradigm to Paradise Lost*

John Corbett; Faculty Sponsors: Dr. Erica L. Johnson and Dr. Sid E. Ray

*Analysis of Toni Morrison's Beloved: Sethe Claims her Motherhood by killing her Daughter*

Sania Azhar; Faculty Sponsor: Dr. Rebecca E. Martin

*Was Taras Bulba Ever Russian?*

Yuliya Palianok; Faculty Sponsor: Dr. Andriy Danylenko

**Session 12**      **Film and Media Analysis –**  
3:30-4:30 p.m.    **Room E318**  
**Moderator: Dr. Bette H. Kirschstein**

*The Exorcist: Monstrosity Based on the Foreign and the Familiar*

Hayden Dabbs; Faculty Sponsor: Dr. Catherine Zimmer

*Same Fear, Different Devices: Media Moral Panics*

Alexa McKenna; Faculty Sponsor: Dr. Marcella T. Szablewicz

**Session 13**      **Sociological Analysis of Race, Gender, and Culture – Room E323**  
3:30-4:30 p.m.      **Moderator: Dr. Judith Pajo**

*Race and Ethnicity through the Lens of Social Media*  
Catherine Salazar; Faculty Sponsor: Dr. Judith Pajo

*Gender Equality Amongst the Islamic Population*  
Kaltrina Mulosmani; Faculty Sponsor: Dr. Judith Pajo

*No Femmes: Masculinity in Manhattan*  
Alphonse Gonzales; Faculty Sponsor: Dr. Judith Pajo

*Fan Culture: The One Direction Connection*  
Kristina Leibold; Faculty Sponsor: Dr. Judith Pajo

**Session 14**      **The Economics of Education – Room E324**  
3:30-4:30 p.m.      **Moderators: Prof. Kier F. Hanratty and Dr. Gregory Colman**

*Easy Graders: The Effect of Adjunct Faculty on Grade Inflation*  
Lilay Hagos; Faculty Sponsor: Dr. Gregory Colman

*Financial Literacy of College Students*  
Cherrnal Lewis; Faculty Sponsor: Prof. Kier F. Hanratty

*It's More Than Just an Education: Measuring "Sheepskin Effects"*  
Kelly Lester; Faculty Sponsor: Prof. Mark L. Weinstock

*The Effect of Sexual Assault on Cumulative GPA*  
Melissa Bowley; Faculty Sponsor: Dr. Gregory Colman

**Session 15**      **The Economics of Markets – Room E325**  
3:30-4:30 p.m.      **Moderators: Prof. Mark L. Weinstock and Prof. Sam S. Baruch**

*What Factors Influence Concert Industry Success?*  
Marcela Pertusi; Faculty Sponsor: Prof. Sam S. Baruch

*The Effect of Google Trends Data on House Prices*  
Haley Racicot; Faculty Sponsor: Dr. Gregory Colman

*Low Income Rental Affordability and Labor Market Dynamics*  
Jonathan O'Kane; Faculty Sponsors: Prof. Sam S. Baruch and Prof. Kier F. Hanratty

*The Role of Renewable Energies in the Liberalized German Electricity Market*  
Maximilian Rychwalski; Faculty Sponsor: Prof. Mark L. Weinstock

**Session 16**      **Studies in Criminal Justice – Room E326**  
3:30-4:30 p.m.    **Moderator: Dr. Hasan T. Arslan**

*The Knights of People: Human Trafficking Task Force (HTTF)*  
Michael Palazzi; Faculty Sponsor: Dr. Hasan T. Arslan

**Session 17**      **Psychological Assessment of Trauma – Room E327**  
3:30-4:30 p.m.    **Moderators: Dr. James B. McCarthy and Dr. Maren Westphal**

*The Late Adolescent Trauma of Frida Kahlo and Her Identity as an Artist*  
Jordan Falco; Faculty Sponsor: Dr. James B. McCarthy

*The role of mental health counselors in treating veterans with co-occurring  
posttraumatic stress disorder and substance use disorders in primary care*  
Nilton Castro; Faculty Sponsor: Dr. Maren Westphal

**Session 18**      **The Could've-Beens (Performance) – Bianco Room**  
3:30-4:30 p.m.    **Moderator: Prof. Adrienne S. Kapstein**

Joe Reault  
Brandon Adam  
Sam Casey  
Preston Fox  
Alexander Knezevic  
Andrew Newman  
Octavio Yattah  
Faculty Sponsor: Prof. Michael Goldfried

4:45-5:30 p.m.    **Reception and Awards Ceremony – Student Union**  
Presiding, Dr. Maria T. Iacullo-Bird  
Assistant Dean, Dyson College of Arts and Sciences

## ANNOUNCEMENTS AND UPCOMING EVENTS

**The Dyson Society of Fellows Annual Initiation Ceremony  
will take place on the evening of Thursday, April 27<sup>th</sup> 2017  
Pace University, New York Campus**

### *Transactions* – Call for Papers

**Full research papers/artistic projects submitted to the 2017 Annual Meeting will be considered for publication. It is highly recommended that students edit Annual Meeting papers with their faculty sponsors and resubmit. Please forward revised submissions or submit new entries by Friday, June 30<sup>th</sup>, 2017**

**Society of Fellows 2017 Annual Weekend Seminar  
October 6-8, 2017, Warwick, New York**

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The Society of Fellows of Dyson College is the premier honors organization in the College. The Fellows foster dialogue and scholarship across the fields of the arts and sciences through enriching experiences for students with exceptional academic and artistic abilities. The Society of Fellows provides students with opportunities to develop intellectual interests and present their work to the university community. Membership in the Society of Fellows gives recognition to this advanced level of student participation and achievement. Faculty who participate in Society of Fellows events and sponsor students also receive recognition as Fellows.

Each fall the Fellows host the Weekend Seminar where students, faculty, and alumni engage in discussions on a chosen topic in a casual, off-campus setting, usually in upstate New York. At the Society of Fellows Annual Meeting, which is a one-day student conference held in early spring, students showcase their faculty-mentored scholarly research and artistic projects. The official journal of the Society, *Transactions*, publishes outstanding work written by Pace University students under the sponsorship of faculty members, many of whom are Fellows. New members are recognized at the Initiation Ceremony held at the end of the spring semester. More information about the Society of Fellows is available on the Pace University website.